

1. A printing apparatus that prints print data sent from a host apparatus connected via a network, comprising:

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10      a first decision section that decides whether or
not to store the compressed data of said print data in
said compressed data area;

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15 a second decision section that decides whether it
is possible to store or not the compressed data of the
data volume predicted by said prediction section in said
compressed data area.

3. The printing apparatus according to claim 2, wherein

said information added to the print data at least includes the type of said print data, the number of total pages and the size of a printing medium to which the data is printed.

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4. The printing apparatus according to claim 3, wherein said first decision section decides whether or not to store the compressed data of the print data in said compressed data area based on the type of said print data.

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5. The printing apparatus according to claim 4, wherein said first decision section decides, when the type of said print data is secret printing, that the compressed data of the print data should be stored in said compressed data area.

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6. The printing apparatus according to claim 1, wherein said first decision section decides, when printing of the print data received from said host apparatus is not immediately carried out, that the compressed data of the print data should be stored in said compressed data area.

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7. The printing apparatus according to claim 6, wherein said first decision section decides, when a plurality of print data pieces is received from said host apparatus, that the compressed data of any one of those print data pieces should be stored in said compressed data area.

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8. The printing apparatus according to claim 6, wherein said first decision section decides, when no printing medium to which the image data of said print data is printed exists in the apparatus, that the compressed data of the print data should be stored in said compressed data area.

9. The printing apparatus according to claim 3, further comprising a compression/decompression section that compresses the image data of said print data and stores the compressed data in said compressed data area on one hand, and decompresses the compressed data stored in said compressed data area on the other, wherein said prediction section predicts a data volume of the compressed data of said print data based on said total number of pages and the compression rate of said compression/decompression section corresponding to the size of the printing medium to which the data is printed.

10. The printing apparatus according to claim 9, wherein the compression rate of said compression/decompression section is a compression rate when the compression rate is a minimum for the size of said printing medium to which the data is printed.

11. The printing apparatus according to claim 9, further comprising a language interpretation section that interprets a page description language of the print data

received from said host apparatus and acquires image data,
wherein said second decision section decides whether it
is possible to store or not the compressed data of the
data volume predicted by said prediction section in said
5 compressed data area and, if it is possible to store the
compressed data, instructs said language interpretation
section to subject the page description language to an
interpretation process and instructs said
compression/decompression section to carry out a
10 compression process.

12. The printing apparatus according to claim 11, further
comprising a printing section that prints image data
stored in said image data area to a printing medium,
15 wherein said compression/decompression section, when
carrying out printing processing on the compressed data
stored in said compressed data area, carries out
decompression processing on the compressed data.

20 13. The printing apparatus according to claim 1, wherein
said second decision section, when it is not possible
to store the compressed data of the data volume predicted
by said prediction section in said compressed data area,
notifies this to said host apparatus.

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14. A copying apparatus that prints print data sent from
a host apparatus connected via a network, comprising:
the printing apparatus according to claim 1; and

a copying unit that scans a document and copies the scanned image data, wherein the compressed data area of the storage section of said printing apparatus stores the image data scanned by said copying unit.

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15. An image communication apparatus that prints print data sent from a host apparatus connected via a network, comprising:

the printing apparatus according to claim 1; and
10 an image communication unit that transmits/receives image data via a communication line, wherein the compressed data area of the storage section of said printing apparatus stores the image data transmitted/received by said image communication unit.

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16. A multi-function apparatus that prints print data sent from a host apparatus connected via a network, comprising:

the printing apparatus according to claim 1;
20 an image communication unit that transmits/receives image data via a communication line; and

a copying unit that scans a document and copies the scanned image data, wherein the compressed data area of
25 said printing apparatus stores the image data transmitted/received by said image communication unit and image data scanned by said copying unit.

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deciding whether or not to store compressed data

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if the compressed data should be stored in said
compressed data area;

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